

**IN THE CLAIMS:**

*Please amend the claims as follows:*

1-3 (Canceled)

4. (Currently Amended) The transmission apparatus as claimed in claim 35,  
wherein the transmission apparatus is used for image data.

5. (Currently Amended) ~~The A~~ transmission apparatus for use in an optical  
subscriber network having an optical line termination (OLT) as claimed in claim 1,  
wherein the optical line termination comprises, the OLT further comprising:

a high-level data link control (HDLC) packet processing unit disposed inside the  
OLT, the HDLC packet processing unit further including:

an multi-program transmission stream (MPTS) data receiving unit -for  
receiving a MPTS data transmission stream data from an outside;

a first buffer coupled to the MPTS receiver, for to-buffering -the MPTS  
transmission stream data received in the MPTS receiver transmission stream data  
receiving unit to convert the transmission stream data into an data packet;

an HDLC generator coupled to the buffer, data packet generating unit for  
retrieving MPTS data stored in the buffer, for converting the MPTS data into an  
HDLC packet, wherein generating thea data HDLC packet is generated according to a  
HDLC protocol, which has a predetermined payload portion, from the transmission  
stream data stored in the buffer;

a control section controller for controlling the MPTS receiver, the buffer and the

~~HDLC generator transmission stream data receiving section, the buffer and the data packet generating unit; and~~

~~an synchronous transport module (STM) unit for receiving the HDLC packet received from the HDLC packet processing unit and converting the HDLC packet optical output unit for converting the data packet into an optical signal for transmission.~~

6. (Currently Amended) ~~The A~~ transmission apparatus for use in an optical subscriber network, having a plurality of optical network units (ONU), the ONU further comprising as claimed in claim 1, wherein an optical network unit comprises:

an synchronous transport module (STM) unit for transmitting an optical signal;  
a high-level data link control (HDLC) packet processing unit disposed inside the ONU, for receiving optical signals from the STM unit, the HDLC packet processing unit further including:

an multi-program transmission stream (MPTS) data receiving unit receiver for receiving the optical signal from the optical line termination STM unit, for converting the received optical signal into an electrical signal and outputting an data HDLC packet;

an transmission stream MPTS -data extracting unit or coupled to the MPTS receiver, for receiving the data HDLC packet from the transmission stream MPTS data receiving unit, removing overhead from the data HDLC packet and extracting transmission stream MPTS data;

a second buffer coupled to the MPTS data extractor, for buffering the extracted transmission stream MPTS data;

a controller section for controlling the MPTS receiver, the transmission

~~streamMPTS data extracting extractorunit~~ and the buffer; and

a switching unit for switching the ~~transmission streamMPTS~~ data from the ~~second buffer~~HDLC packet processing unit to a plurality of subscribers.

7. (Currently Amended) The transmission apparatus as claimed in claim 46, wherein ~~second~~the buffer continuously outputs the ~~transmission streamMPTS~~ data.

8. (Currently Amended) The transmission apparatus as claimed in claim 6, wherein the switching unit includes;

a first memory for storing the MPTS data; and  
~~-a plurality of secondary memory units having assigned storage areas for each transmission stream of the MPTS data and the plurality of subscribers, wherein the storage areas are assigned according to the MPTS data in the first memory enabled for and transmitted to each of the plurality of subscribers based upon the MPTS data in the first memory.~~

9. (Currently Amended) The transmission apparatus as claimed in claim 68, wherein the plurality of subscribers access to ~~transmission stream~~the MPTS data is based upon ~~on~~ predetermined requirements of each subscriber.

10. (Currently Amended) The transmission apparatus as claimed in claim 45, wherein the HDLC~~data packet protocol~~ provides a HDLC packet having ~~has a~~ predetermined size of 64 byte to 1024 byte of a ATM payload.

11. (Currently Amended) The transmission apparatus as claimed in claim 56,  
wherein the HDLC data packet protocol provides for a HDLC packet of ~~has a~~  
~~predetermined size of~~ ~~of 64 byte to 1024 byte of a ATM payload.~~

12. (Currently Amended) The transmission apparatus as claimed claim 56,  
wherein the transmission apparatus provides for a payload transmission rate of 6:512 ~~the~~  
~~data packet has a predetermined size of payload.~~

13. (Currently Amended) The transmission apparatus as claimed in claim 86,  
wherein the transmission apparatus provides for a payload transmission rate of 6:512 ~~the~~  
~~data packet has a predetermined size of payload.~~

14. (New) The transmission apparatus as claimed in claim 8, wherein the plurality of secondary memory units is configured for outputting or discarding first-inputted MPTS data according to a first-in first-out (FIFO) method.